

LOG_aLevel

Water Level and Wave Measurement for Jack-Ups

**Autonomous Remote Sensing of Water Level,
Waves and Tides**

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LOG_aLevel *Water Level and Wave* *Measurement for Jack-Ups*

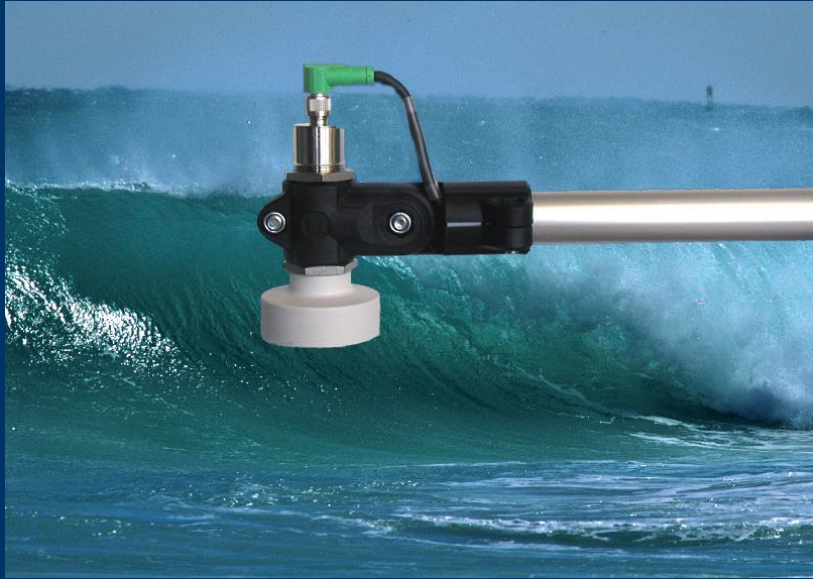
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- Monitoring & Operations Safety
- Water level & wave monitoring before & during operations
- Increased safety during lowering
- Sea state information for hassle free logistics of off-shore constructions
- Significantly higher efficiency of operation
- Easier and reliable decisions for the operation
- Reliable log of sea state for the principal
- Wave parameters like H_s , H_{max} and T_s to estimate the load to the construction
- Ship induced Wave Measurements from other ships in the vicinity
- Load Determination for Hydraulic Engineering (Dams/Ship induced Waves etc.)
- Event Alerting System (SMS & E-Mail alarming)
- Extension of the system to complete Hydrological & Meteorological Monitoring Station
- SCADA / Fleet management integration



- accurate
- calibration-free
- robust and cost-effective
- remote sensing
- low maintenance system
- covers all kinds of water level and water dynamics

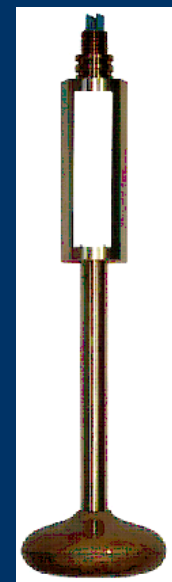
Data Logger CF or SD



Integration with all possible sensors & systems including temperature, humidity, precipitation, barometric pressure, visibility and more...



2D Inductive
Current Meter



Multi-parameter
weather station
with the 6 most
essential weather
data



GSM/GPRS
and Radio
Modules



AIS AtoN



2D Ultrasonic Anemometer

- In combination with the inductive 2D current meter, the wave direction can be cost-effectively estimated
- Other option includes the use of a General Acoustics ULS Advanced Field system (please contact General Acoustics or your local agent for more information)



- Measuring range: up to 30m
- Field accuracy: 1-2 cm
- Resolution: 1 mm
- Sample rate: up to 5 Hz (user selectable)
- Averaging (HW) : none/10s/30s/1m/5m/10m
(SW) : none/1s/2s/5s/10s/20s/30s//1m/2m/5m/10m
- Time accuracy: 1 ms GPS synchronised RTC
- Telemetry output: RS 232 (RS485, LAN optional)
- Frequency: 30...80 kHz depending on measurement range
- Power supply: 12VDC / 110-240VAC
- Working temp: -20 °C up to +70 °C
- Storage temp: -40 °C up to +80 °C
- HYPACK integration

Sub-bottom Profiling for Jack-Up with additional SUBPRO1210 system

- Increased safety for deploying and retracting the jack-up legs
- Increased stability
- Easy & quick verification of sub-bottom layers
- Identification of mud, sand, rock, as well as of the real seabed layer and low-density layers
- Identification of (buried) pipeline, cable and object detection
- Identification of “hollow” pocket sub surface (peats)
- Layer Density Identification for load bearing capacity and stability calculation

For more information on Sub-bottom Profiling please look at the SUBPRO1210 brochure or inquire one of our representatives

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Calibration and maintenance free

Robust, precise, economical and compact

Modular system to fulfil different customer requirements and easy upgrade and maintenance due to simple exchange of modules

Reliable even under extreme conditions: flood, ice, storms, debris, fog, etc.

Low installation effort

Completely autonomous operation

Worldwide approved, tested and used

Easy to use Windows-Software for data viewing, logging and control